

GREYHOUND 1040 Full Gigabit Ethernet 19" Ruggedized Rack-Mount Switches, Media Modules and Power Supplies





The GREYHOUND 1040 switches include 12 fixed ports and also feature two media module slots that enable you to add 8 additional ports each, for a maximum of 28 ports per device.

The switch's two power supplies, available in high- or low-voltage options, can be changed in the field for maximum uptime. You can keep your systems up and running by quickly swapping out one power supply, while the network is powered by the redundant supply. More and more applications need power, and the GREYHOUND 1040 switches support up to 16 PoE and PoE+ ports.

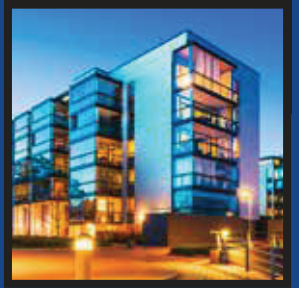
For all-around network protection and uptime, GREYHOUND 1040 switches offer enhanced Layer 2 and Layer 3 features through Hirschmann's operating system, HiOS. The software includes comprehensive security, diagnostic and redundancy features. The device's precise synchronization also enables applications to comply with stringent real-time requirements.



Technical Information

| Product Description Basic Units | | |
|--|---|--|
| Type | GRS1042-xx | GRS1142-xx |
| |  |  |
| Description | Modular Managed Industrial Switch, fanless design, Layer 2 or Layer 3 | |
| Port Type and Quantity | Ports in total up to 28 Basic unit 12 fixed ports: 2 x GE/2.5GE SFP slot plus 10 x FE/GE TX ports expandable with two media module slots; 8 FE/GE ports per module | Ports in total up to 28; ports on rear Basic unit 12 fixed ports: 4 x GE/2.5GE SFP slot plus 2 x FE/GE SFP plus 6 x FE/GE TX expandable with two media module slots; 8 FE/GE ports per module |
| Number of Fiber Ports | Up to 22 fiber ports: 18 GE/FE plus 4 x 2.5 GE/GE | |
| Additional Interfaces | | |
| V.24 Interface | 1 x RJ45 socket | |
| Out-of-Band Management | 1 x 10/100 RJ45; Management port | |
| SD | 1 x to connect auto-configuration adapter ACA31 (SD) | |
| USB | 1 x to connect auto-configuration adapter ACA22 (USB) | |
| Power Requirements | | |
| Operating Voltage Input 1&2 | 24 to 48 V DC, or 60 to 250 V DC and 110 to 240 V AC, or 48 to 54 V DC (PoE/PoE+) | |
| Power Consumption | Basic unit with one power supply 32 W (110 Btu (IT)/h) | |
| Mechanical Construction | | |
| Weight | 3600 g | |
| Protection Class | IP30 | |
| Dimensions (WxHxD) | 444 x 44 x 354 mm | |
| Software | | |
| Supported HiOS Software Levels | Layer 2 Advanced (L2A) or Layer 3 Advanced (L3A) | |

NOTE: These are the prominent technical specifications. For complete technical specifications visit: www.hirschmann.com



Technical Information

| Product Description Media Modules for GREYHOUND | |
|---|---|
| Type | GMMxx |
| | |
| Port Type and Quantity | Up to 8 FE/GE ports, more details in the configurator for ST, SC, RJ45, SFP slots |
| Power over Ethernet | Up to 180 W overall, up to 120 W per media module |
| Power Consumption | 5.5 to 10 W (without PoE) |
| Weight | 490 to 650 g |
| Gigabit ETHERNET Network Size | |
| Twisted Pair (TP) | 0 to 100 m |
| Multimode Fiber (MM) 50/125 μm | 0 to 550 m, 7.5 dB link budget; 62.5/125 μm , 0 to 275 m, 7.5 dB link budget (with M-SFP-SX/LC) |
| Singlemode Fiber (SM) 9/125 μm | 0 to 20 km, 11 dB link budget (with M-SFP-LX/LC); 14 to 42 km, 5 to 20 dB link budget (with M-SFP-LX+/LC) |
| Singlemode Fiber (LH) 9/125 μm | 23 to 80 km, 5 to 22 dB link budget (with M-SFP-LH/LC); 71 to 128 km, 15 to 30 dB link budget (with M-SFP-LH+/LC) |
| Fast ETHERNET Network Size | |
| Twisted Pair (TP) | 0 to 100 m |
| Multimode Fiber (MM) 50/125 μm | 50/125 μm , 0 to 5000 m, 8 dB link budget; 62.5/125 μm , 0 to 4000 m, 11 dB link budget (with M-Fast SFP-MM/LC) |
| Singlemode Fiber (SM) 9/125 μm | 0 to 25 km, 13 dB link budget (with M-Fast SFP-SM/LC); 25 to 65 km, 10 to 29 dB link budget (with M-Fast SFP-SM+/LC) |
| Singlemode Fiber (LH) 9/125 μm | 47 to 104 km, 10 to 29 dB link budget (with M-Fast SFP-LH/LC) |

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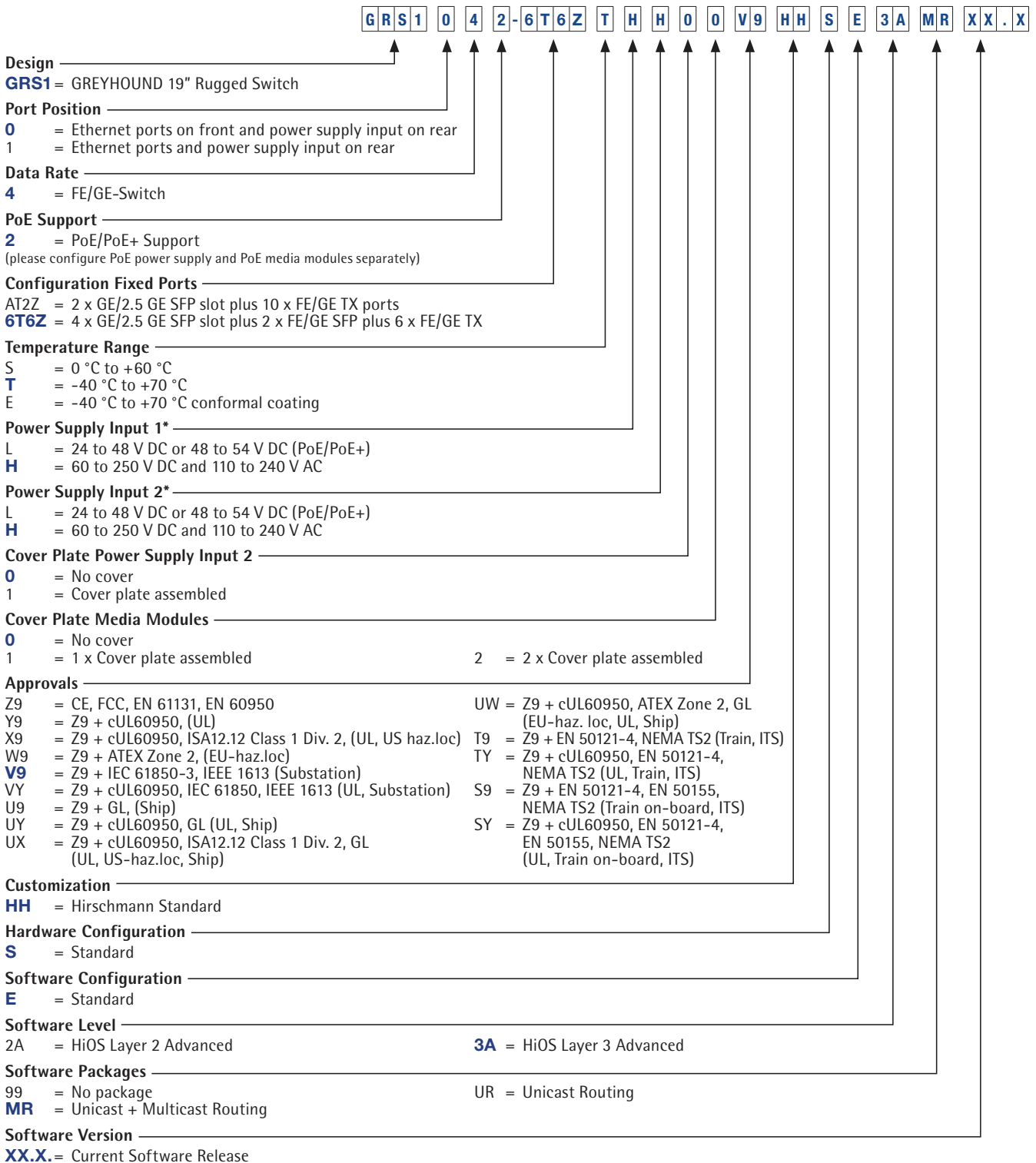
| Product Description Power Supplies for GREYHOUND | |
|--|---|
| Type | GPSxx |
| | |
| Variant | Switch only, or switch and PoE, or PoE only |
| Operating Voltage | 24 to 48 V DC, or 60 to 250 V DC and 110 to 240 V AC, or 48 to 54 V DC (PoE/PoE+) |
| Power Consumption | 35 to 38 W + up to 180 W PoE |
| Weight | 600 to 750 g |

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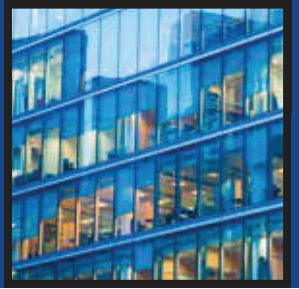
| Common Technical Data | |
|--|---|
| Type | Basic Units, Media Modules and Power Supplies |
| Ambient Conditions | |
| Operating Temperature | 0 °C to 60 °C, or -40 °C to +70 °C, IEC 60068-2-2 Dry Heat Test +85 °C 16 Hours, optional conformal coating |
| Rel. Humidity (non-condensing) | 5% to 95% |
| Approvals Configurable | |
| Safety of Industrial Control Equipment | EN 60950-1, EN 61131-2, cUL60950-1 |
| Substation | IEC 61850-3, IEEE 1613 |
| Ship | GL/DNV (Germanischer Lloyd/Det Norske Veritas) (pending) |
| Hazardous Locations | ISA-12.12.-01 Class 1 Div. 2 (pending), ATEX Zone 2 (pending) |
| Transportation | NEMA TS2, EN 50121-4, EN 50155 |
| Accessories | |
| Device Replacement and Logging | ACA22-USB EEC 942 124-001, ACA31 942 074-001 |

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GREYHOUND GRS1042/GRS1142 Switch Configurations



* NOTE: Power supplies need to be ordered separately.



GREYHOUND GMM20, GRM3x, GRM4x Media Module Configurations

GMM 3 2-MM MM TT TT T V9 HH S

Design

GMM = Greyhound Switch Media Module

Data Rate

2 = FE Fiber Ports
3 = FE Fiber + FE/GE TX Ports
4 = FE/GE SFP + FE/GE TX Ports

Hardware Type

0 = Standard
2 = PoE/PoE+ Support (please configure PoE power supply separately)

Port Configuration 1 and 3

| | |
|--|---|
| TT = 2 x TX, RJ45, 10/100/1000 Mbit/s | NN = 2 x Multimode FX, ST, 100 Mbit/s |
| OO = 2 x SFP Slots, 100/1000 Mbit/s | VV = 2 x Singlemode FX, SC, 100 Mbit/s |
| MM = 2 x Multimode FX, SC, 100 Mbit/s | UU = 2 x Singlemode FX, ST, 100 Mbit/s |

Port Configuration 5 and 7

| | |
|--|---|
| TT = 2 x TX, RJ45, 10/100/1000 Mbit/s | NN = 2 x Multimode FX, ST, 100 Mbit/s |
| OO = 2 x SFP Slots, 100/1000 Mbit/s | VV = 2 x Singlemode FX, SC, 100 Mbit/s |
| MM = 2 x Multimode FX, SC, 100 Mbit/s | UU = 2 x Singlemode FX, ST, 100 Mbit/s |

Port Configuration 2 and 4

| | |
|--|---|
| TT = 2 x TX, RJ45, 10/100/1000 Mbit/s | NN = 2 x Multimode FX, ST, 100 Mbit/s |
| OO = 2 x SFP Slots, 100/1000 Mbit/s | VV = 2 x Singlemode FX, SC, 100 Mbit/s |
| MM = 2 x Multimode FX, SC, 100 Mbit/s | UU = 2 x Singlemode FX, ST, 100 Mbit/s |

Port Configuration 6 and 8

| | |
|--|---|
| TT = 2 x TX, RJ45, 10/100/1000 Mbit/s | NN = 2 x Multimode FX, ST, 100 Mbit/s |
| OO = 2 x SFP Slots, 100/1000 Mbit/s | VV = 2 x Singlemode FX, SC, 100 Mbit/s |
| MM = 2 x Multimode FX, SC, 100 Mbit/s | UU = 2 x Singlemode FX, ST, 100 Mbit/s |

Temperature Range

S = 0 °C to +60 °C
T = -40 °C to +70 °C
E = -40 °C to +70 °C conformal coating

Approvals

Z9 = CE, FCC, EN 61131, EN 60950
Y9 = Z9 + cUL60950, (UL)
X9 = Z9 + cUL60950, ISA12.12 Class 1 Div. 2, (UL,US haz.loc) pending
W9 = Z9 + ATEX Zone 2, (EU-haz.loc) pending
V9 = Z9 + IEC 61850-3, IEEE 1613 (Substation)
VY = Z9 + cUL60950, IEC 61850, IEEE 1613 (UL, Substation) pending
U9 = Z9 + GL, (Ship) pending
UY = Z9 + cUL60950, GL (UL, Ship) pending
UX = Z9 + cUL60950, ISA12.12 Class 1 Div. 2, GL (UL, US-haz.loc, Ship) pending
UW = Z9 + cUL60950, ATEX Zone 2, GL (EU-haz. loc, UL, Ship) pending
T9 = Z9 + EN 50121-4, NEMA TS2 (Train, ITS)
TY = Z9 + cUL60950, EN 50121-4, NEMA TS2 (UL, Train, ITS) pending
S9 = Z9 + EN 50121-4, EN 50155, NEMA TS2 (Train on-board, ITS)
SY = Z9 + cUL60950, EN 50121-4, EN 50155, NEMA TS2 (UL, Train on-board, ITS) pending

Customization

HH = Hirschmann Standard

Hardware Configuration

S = Standard

GREYHOUND GPSx Power Supply Configurations

